

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 708 573 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
06.08.1997 Bulletin 1997/32

(51) Int Cl.⁶: **H04Q 7/34**

(43) Date of publication A2:
24.04.1996 Bulletin 1996/17

(21) Application number: **95850176.9**

(22) Date of filing: **12.10.1995**

(84) Designated Contracting States:
CH DE ES FR GB IT LI NL

• **Rosenlund, Henrik**
SE-128 62 Sköndal (SE)

(30) Priority: **20.10.1994 SE 9403586**

(74) Representative: **Karlsson, Berne**
Telia Research AB,
Rudsjöterrassen 2
136 80 Haninge (SE)

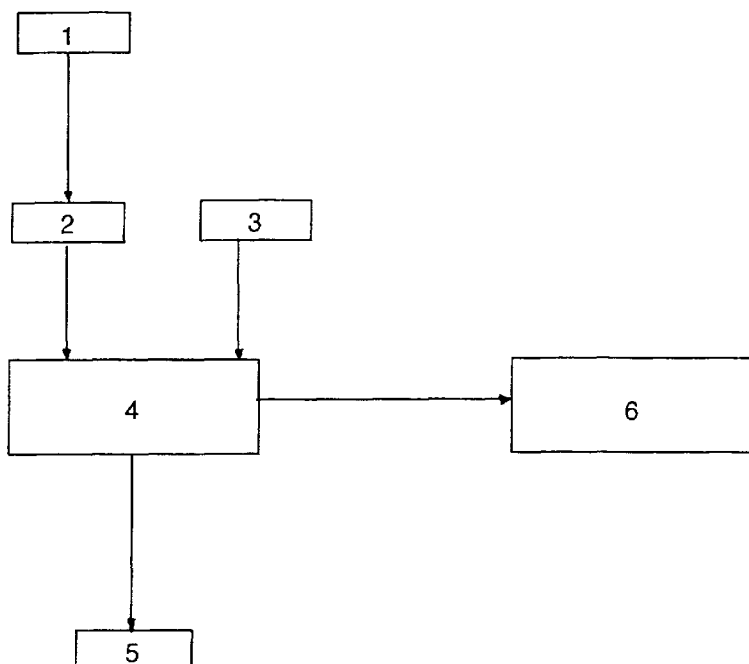
(71) Applicant: **TELIA AB**
126 86 Farsta (SE)

(72) Inventors:
• **Lidbrink, Stefan**
SE-112 45 Stockholm (SE)

(54) **Method and device for supervision of preferably mobile telephone systems**

(57) The idea of the invention is to introduce a so called expert system for control of traffic load, other counters in the exchanges/switches and other indata, if any, for instance signal strength data. An expert system can, based on previously experienced levels, predict within which limits different parameters should be. By

the fact that the expert system initially can be "taught" and continuously "further educated", the supervision of the traffic and the counters can be based on data which is normal for respective base station and point of time. By that a more delicate network for detection of faults in the system will be achieved, which results in that faults in the system will be earlier detected.



EP 0 708 573 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 95 85 0176

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	INTERNATIONAL CONFERENCE ON DIGITAL LAND MOBILE RADIO COMMUNICATIONS, 30 June 1987, pages 497-506, XP002011123 KALL J ET AL: "MAINTENANCE INFORMATION IN THE GSM SYSTEM" * paragraph 3.1 * * paragraph 4.2.2 * * paragraph 4.3.3 * ---	1,5,6,8, 9,13	H04Q7/34
A	WO 93 15569 A (COMARCO INC) 5 August 1993 * abstract * * page 5, line 5 - page 5, line 24 * * page 30, line 11 - page 31, line 26 * * page 37, line 14 - page 38, line 26 * * page 40, line 6 - page 40, line 11 * ---	1,4-9, 11-13	
A	GB 2 252 475 A (MOTOROLA INC) 5 August 1992 * abstract * * page 5, line 27 - page 6, line 29 * ---	1,5,6,8, 9	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A	REVIEW OF THE ELECTRICAL COMMUNICATION LABORATORIES, MARCH 1982, JAPAN, vol. 30, no. 2, ISSN 0029-067X, pages 279-286, XP002032526 MITSUISHI T ET AL: "Supervisory system design for medium capacity cell site system (land mobile telephone system)" * paragraph 2.1 - paragraph 2.2 * -----	6,13	H04Q H04M
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 6 June 1997	Examiner Maalismaa, J
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO FORM 1503 (03.82) (P04C01)